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CENTRAL FAX CENTER

SEP 24 2009

**AMENDMENTS TO THE CLAIMS**

Please amend the claims below by deleting items with a strikeout (i.e. patent) or brackets / double brackets(i.e., [patent] or [[patent]]) and adding items with an underline (i.e. patent).

1. (Currently amended) A method for treating diseases associated with changes of qualitative and/quantitative composition of blood extracellular DNA ~~[[in-particular]]~~ selected from the group comprising: generalized infectious caused by bacteria, diseases caused by fungi and protozoa, atherosclerosis, diabetes, delayed-type hypersensitivity reaction and diseases caused by mutations in somatic cells' genes ~~[[characterized by]]~~, wherein the method comprises introduction ~~[[introducing]]~~ of blood extracellular ~~[[DNA-destroying agent]]~~ DNase enzyme into a systemic blood circulation.
2. (Currently amended) A method according to claim 1 wherein ~~[[DNAase]]~~ the blood extracellular DNA destroying agent is a DNase ~~[[enzyme is introduced into a systemic blood circulation]]~~.
3. (Currently amended) A method according to claim 1 ~~[[which characterized by introducing of DNAase enzyme in doses sufficient to provide]]~~ wherein the blood extracellular DNA destroying agent is DNase which is introduced in doses sufficient to

provide a blood extracellular electrophoretic profile change ~~[[, which can be]]~~ as  
revealed by pulse-elelectrophoresis.

4. (Currently amended) A method according to claim 1 ~~[[characterized by~~  
introducing of DNAase enzyme in doses and regimens which provide blood plasma  
DNA-hydrolytic activity ,measured in blood plasma, to exceed 150 Kunitz units per liter  
of plasma during more then 12 hours in total within 24 hours]] wherein the blood  
extracellular DNA destroying agent is a DNase which is introduced in a dose and  
regime that results in a DNA hydrolytic activity in blood plasma that exceeds 150 Kunitz  
units per liter of blood plasma for more than 12 hours within a period of 24 hours.